Serial No.: 09/554,414

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 9, lines 11-13, which starts with "Figs. 8A-8B illustrate" with the following amendment paragraph:

Figs. 8A-8B illustrate the alignment between the <u>methylated DNA binding (MDB)</u>

MDB domain <u>of methyl CpG binding protein 2 (MeCP2)</u> MeCP2 and demethylase and the predicted amino acid sequence of human demethylase;